

Docket No. 248247US0

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Kiyoshi TOMIOKA

SERIAL NO: 10/765,832

GAU: 1626

FILED: January 29, 2004

EXAMINER:

FOR PRODUCTION METHOD OF BETA-AMINO ACID



INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.  
Norman F. Oblon

Vincent K. Shier, Ph.D.  
Registration No. 50,552

Customer Number

22850

Tel. (703) 413-3000  
Fax. (703) 413-2220  
(OSMMN 05/03)

Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

248247US0

SERIAL NO.

10/765,832

APPLICANT

Kiyoshi TOMIOKA

FILING DATE

January 29, 2004

GROUP

1626

## LIST OF REFERENCES CITED BY APPLICANT

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					
	AL					
	AM					
	AN					

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO	
	AO				
	AP				
	AQ				
	AR				
	AS				
	AT				
	AU				
	AV				

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

✓	AW	D. COLE, "RECENT STEREOSELECTIVE SYNTHETIC APPROACHES TO BETA-AMINO ACIDS", Tetrahedron, Vol. 50, No. 32, pp. 9517-9582, 1994	
✓	AX	G. CARDILLO, et al., "ASYMMETRIC SYNTHESIS OF BETA-AMINO ACIDS AND ALPHA-SUBSTITUTED BETA-AMINO ACIDS", Chemical Socited Reviews, 1996, pp.117-128	
✓	AY	M.P. SIBI, et al., "CHIRAL LEWIS ACID CATALYSIS IN CONJUGATE ADDITIONS OF OXYGEN-BENZYLHYDROXYLAMINE TO UNSATURATED AMIDES. ENANTIOSELECTIVE SYNTHESIS OF BETA-AMINO ACID PRECURSORS", J. Am. Chem. Soc., 1998, 120, pp. 6615-6616	
✓	AZ	W. ZHUANG, et al., "CATALYTIC ENANTIOSELECTIVE ADDITION OF AROMATIC AMINES TO ENONES: SYNTHESIS OF OPTICALLY ACTIVE BETA-AMINO ACID DERIVATIVES", Chem. Commun., 2001, pp. 1240-1241	<input checked="" type="checkbox"/> Additional References sheet(s) attached

Examiner

Date Considered

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO 1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. <div style="text-align: center;">248247US0</div>	SERIAL NO. <div style="text-align: center;">10/765,832</div>
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT <div style="text-align: center;">Kiyoshi TOMIOKA</div>	
		FILING DATE <div style="text-align: center;">January 29, 2004</div>	GROUP <div style="text-align: center;">1626</div>
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>			
✓	AAA	J. MYERS, et al., "ASYMMETRIC SYNTHESIS OF BETA-AMINO ACID DERIVATIVES VIA CATALYTIC CONJUGATE ADDITION OF HYDRAZOIC ACID TO UNSATURATED IMIDES", J. Am. Chem. Soc., 1999, 121, pp. 8959-8960	
✓	AAB	G. SUNDARARAJAN, et al., "A NEW POLYMER ANCHORED CHIRAL CATALYST FOR ASYMMETRIC MICHAEL ADDITION REACTIONS", Organic Letters, 2001, Vol. 3, No. 3, pp. 389-392	
✓	AAC	"EXTERNAL CHIRAL LIGAND-CONTROLLED ASYMMETRIC CONJUGATE ADDITION OF LITHIUM AMIDES TO ALPHA, BETA-UNSATURATED ESTERS" (Report No. 29[P1]-069), poster March 27, 2003 (see Declaration Under 37 C.F.R. §1.132)	
✓	AAD	"EXTERNAL CHIRAL LIGAND-CONTROLLED ASYMMETRIC CONJUGATE ADDITION OF LITHIUM AMIDES TO ALPHA, BETA-UNSATURATED ESTERS" (Report No. 29[P1]-069), abstract, March 5, 2003 (see Declaration Under 37 C.F.R. §1.132)	
✓	AAE	"EXTERNAL CHIRAL LIGAND-CONTROLLED ASYMMETRIC CONJUGATE ADDITION OF LITHIUM AMIDES TO ALPHA, BETA-UNSATURATED ESTERS" (Report No. 29[P1]-069), internet accessible February 1, 2003 (see Declaration Under 37 C.F.R. §1.132)	
✓	AAF	H. DOI, et al., "CHIRAL LIGAND-CONTROLLED ASYMMETRIC CONJUGATE ADDITION OF LITHIUM AMIDES TO ENOATES", J. Am. Chem. Soc., 125 (10), pp. 2886-2887, 2003, Web Release Date: February 12, 2003 (see Declaration Under 37 C.F.R. §1.132)	
✓	AAG	H. DOI, et al., "CHIRAL LIGAND-CONTROLLED ASYMMETRIC CONJUGATE ADDITION OF LITHIUM AMIDES TO ENOATES", J. Am. Chem. Soc., 125 (10), pp. 2886-2887, March 12, 2003 (see Declaration Under 37 C.F.R. §1.132)	
	AAH		
	AAI		
	AAJ		
	AAK		
	AAL		
	AAM		
	AAN		
	AAO		
	AAP		
	AAQ		
Examiner			Date Considered
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			